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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/666,901	09/20/2000	Vincent Liu	GIC-620 8304		
7590 04/19/2005			EXAMINER		
Barry R Lipsitz Attorney at Law			NGUYEN, STEVEN H D		
755 Main Street Bldg 8			ART UNIT	PAPER NUMBER	
Monroe, CT 06468			2665		
			DATE MAILED, 04/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	ı No.	Applicant(s)				
Office Action Summary		09/666,901		LIU ET AL.				
		Examiner		Art Unit				
		Steven HD	Nguyen	2665				
Period fo	The MAILING DATE of this communicati	on appears on the	cover sheet with the	correspondence add	dress			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR IMAILING DATE OF THIS COMMUNICAT ansions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by the preply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no evention. s, a reply within the statute period will apply and will y statute, cause the applic	or, however, may a reply be ting ory minimum of thirty (30) day expire SIX (6) MONTHS from the sation to become ABANDONE	mely filed ys will be considered timely the mailing date of this co ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed or	n <u>08 Novem</u> ber 200	<u>04</u> .					
2a)⊠		This action is no						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
5) <u></u> 6)⊠	Claim(s) <u>1-13</u> is/are pending in the application 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1-3 and 13</u> is/are rejected. Claim(s) <u>4-12</u> is/are objected to. Claim(s) are subject to restriction	ithdrawn from cons			P			
Applicati	on Papers							
9)	The specification is objected to by the Ex	aminer.						
10)	10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
	Applicant may not request that any objection							
11)	Replacement drawing sheet(s) including the oath or declaration is objected to by				• •			
		the Examiner, Not	s the attached Office	Action or form P1	U-152.			
	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have been uments have been e priority documen Bureau (PCT Rule	received. received in Applicati its have been receive 17.2(a)).	ion No ed in this National S	Stage			
Attachmen	t(s)							
	e of References Cited (PTO-892)	4	l)	(PTO-413)				
2) 🔲 Notic 3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-9- nation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date	SB/08) 5	Paper No(s)/Mail Da Notice of Informal P Other:	ate	-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Balakrishnan (USP 5793425).

Regarding claims 1 and 13, Balakrishnan discloses an apparatus for processing a plurality of channels (Figs 1, Ref 22) in a statistical multiplexer (Fig 1, Ref 24) comprising means for allocating an encoding bit rate for coding a current picture of each channel according to a bit rate need parameters thereof (Fig 1, Ref 30 and lines 59-62); means for allocating a transmission bit rate for transmitting the current picture after encoding thereof (Fig 1, Ref 30, col. 4, lines 39-58) and providing a modeled decoder buffer that receives transmitted pictures therefrom, for each channel (Fig 2, Ref 27); wherein for each channel, the transmission bit rate is based on the channel's encoding bit rate, and is allocated following a system delay that follows the allocated encoding bit rate, to minimize a rate mismatch between an input and an output of the modeled decoder buffer (Col. 4, lines 5-37, col. 4, lines 63 to col. 5, lines 37, col. 6, line 35 to col. 8, lines 38).

Regarding claim 2, Balakrishnan discloses at least one of channels; the transmission bit rate is allowed to deviate from the channel's encoding bit rate to avoid an impending overflow or underflow event of the modeled decoder buffer (Col. 6, lines 36-65).

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Regarding claim 3, Balakrishnan discloses at least one of channels, check for impending overflow or underflow event of the modeled decoder buffer to set at least one of minimum and maximum limits on the transmission bit rates for the channel (Col. 10, lines 5-15).

Response to Arguments

3. Applicant's arguments filed 11/08/04 have been fully considered but they are not persuasive.

In response to page 3, the applicant states that Balakrishnan does not disclose the transmission bit rate is based on the channel's encoding bit rate, and is allocated following a system delay that follows the allocated encoding bit rate, to minimize a rate mismatch between an input and an output of the modeled decoder buffer. In reply, Balakrishnan discloses the transmission bit rate is based on the channel's encoding bit rate "encoding rate of the encoder" and allocated based on the end to end buffer delay between the encoder and decoder in order to prevent the overflow and undeflow of the buffer "minimize a rate mismatch", See col. 8, lines 39-65 and See Abstract.

Allowable Subject Matter

4. Claims 4-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven HD Nguyen whose telephone number is (571) 272-3159. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven HD Nguyen Primary Examiner Art Unit 2665 4/16/05